

FORTHCOMING PUBLICATIONS

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Condensed Matter & Materials Physics

Thickness dependence of the properties of magnetron sputtered ZnO : Al films and its application in Si : H thin film solar cell

RAJESTH DAS AND SWATI RAY

In-situ fabrication of Nd : YVO₄ crystal morphology using soft hydrothermal solutions

K BYRAPPA, RAMANINGAIAH AND M YOSHIMOURA

Low-temperature electronic transport in CdSe single quantum wells

A GHOSAL AND D CHATTOPADHYAY

Nuclear quadrupole interaction at Fe-57 in semimetals arsenic and bismuth

K VENUGOPALAN, N LAKSHMI AND D R S SOMAYAJULU

Crystal and molecular structure of 4(4'-N, N-dimethylamino) benzylidene-2-phenyloxazolin-5-one

SANJIB KARMAKAR AND A N TALUKDAR

Diffusion in a strongly correlated 2D liquid system

HAIMANTI CHAKRABARTI AND BARNANA PAL

Calculation of photofield emission from band states using Kronig-Penney Model and spatially varying photon field

R K THAPA, GUNAKAR DAS, S GURUNG, LALTHAKIMI ZADENG AND R BHATTACHARJEE

Thermodynamics of *d* and *f*-shell liquid metals—a variational approach

J K BARIA, H J TRIVEDI, P N GAJJAR AND A R JANI

Dielectric studies of nanocrystalline copper orthophosphate

JOSE MATHEW, SIBY KURIEN, SHAJO SEBASTIAN AND K C GEORGE

Critical state model on the activation energy for thermally activated flux avalanche in high-temperature superconductor

M R ISLAM

Nuclear Physics

Sufficient cusp field generated by permanent magnet for compact ECR ion source

M H RASHID AND R K BHANDARI

Comparative studies of population yields in $^{76}\text{Ge}(635 \text{ MeV}) + ^{198}\text{Pt}$ and $^{76}\text{Ge}(680 \text{ MeV}) + ^{186}\text{W}$ reactions

I HOSSAIN

Microscopic insight into deformed nature of $^{100-108}\text{Zr}$ isotopes

ANIL CHANDAN, TARIQ AHMAD WAR, NEERU SAWHNEY, ARUN BHARTI AND S K KHOSA

Exotic decay in $^{124-132}\text{Sm}$ isotopes

K P SANTOSH AND ANTONY JOSEPH

Particle Physics

Particular solution of DGLAP evolution equation in next-to-leading order and structure functions at low- x

R RAJKHOWA AND J K SARMA

Supersymmetric quantum mechanics in quaternion space

J P SINGH

Notes

Charge transport through In-pSi (100) Schottky barrier

B P MODI, ACHAMMA JOHN MATHAI, K D PATEL, V M PATHAK AND R SRIVASTAVA

Dependence of Poisson's ratio on porosity in alumina ceramics

S B SHARMA, S C UPADHYAYA AND B S SHARMA

X-ray diffraction studies of 2-[2'-hydroxy salicylidene 5'-(4"-phenyl 2"-thiazolylazo)] benzoic acid

S S CHAVAN

Systematic microhardness measurement on 5N pure single crystalline, non-crystalline and wire plate type bismuth samples

DIPALI J VAIDYA AND KISHOR C PORIA